General Electric offers its vast x-ray experience and facilities to aid in

planning the hospital x-ray department

"Shirt sleeve session"...

Planning and blueprinting a modern x-ray department are certain to involve both the hospital administrator and the architect in a maze of unfamiliar complications. Logical starting point for any construction project involving x-ray facilities is your local General Electric x-ray consultant. Exploratory "shirt sleeve" sessions with all persons involved first determine specific needs. Planning can then be expertly guided by our Installation Planning Service.

With your requirements in mind, this full-time staff of specialists considers every possible operating advantage and convenience: How to arrange equipment and make space work more profitably . . . power, wiring and protective requirements . . . plumbing and other arrangements are carefully analyzed. Thus the layout offered the architect is based on the ultimate in service from the department's x-ray equipment.

Hospital architects rely on this General Electric service more and more because planning experience of more than 50 years helps G.E. provide hundreds of practical application advantages. Of course, there's no cost or obligation for this service.

Subsequent pages outline its operations step by step.

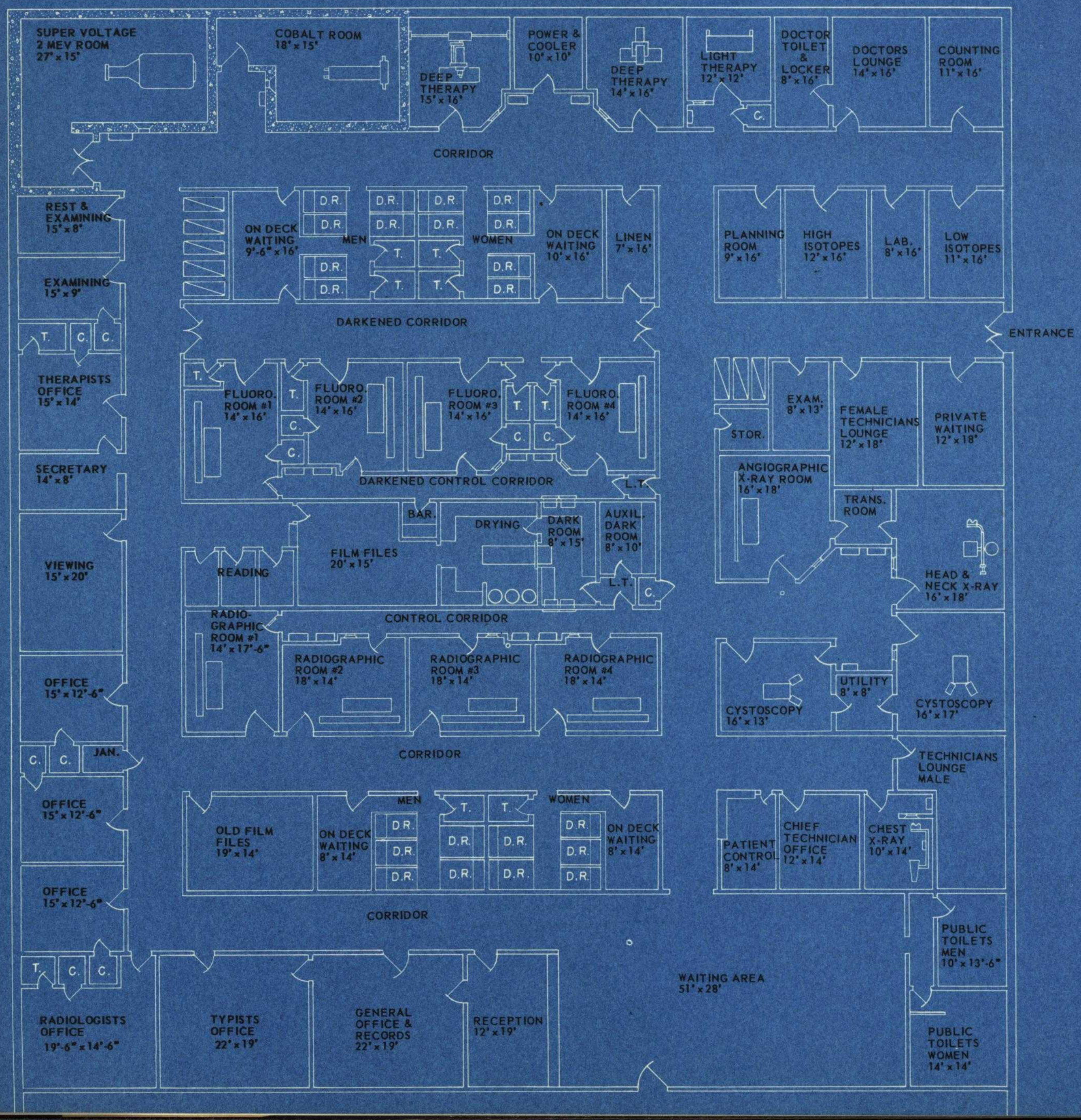
X-RAY DEPARTMENT

GENERAL ELECTRIC

MILWAUKEE 1, WISCONSIN

G-E experience helps you

Preliminary plans factor in space, work load, traffic flow

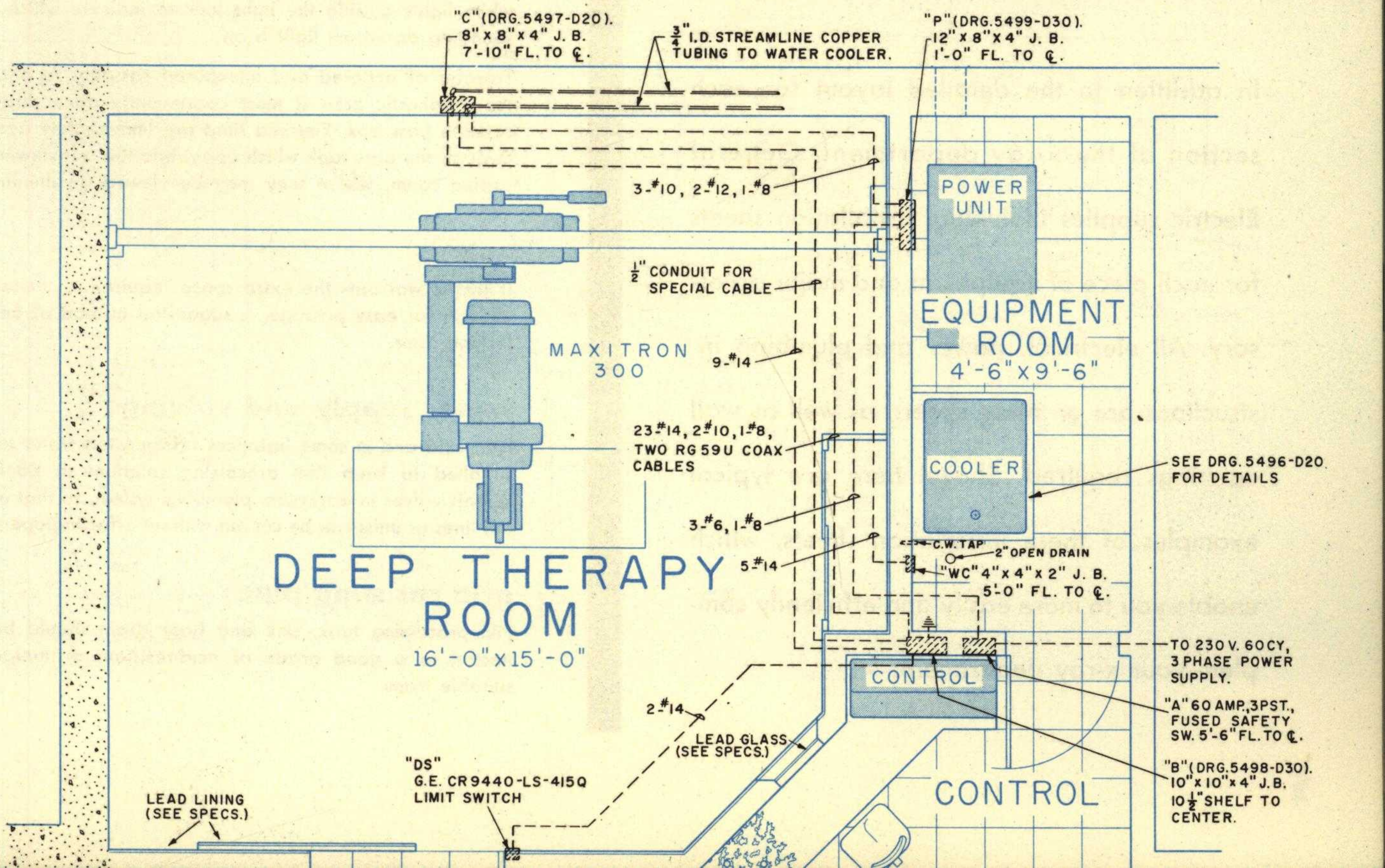


through every stage

...general layout of department...detailed plans for each section...precise installation sheets for each piece of equipment.

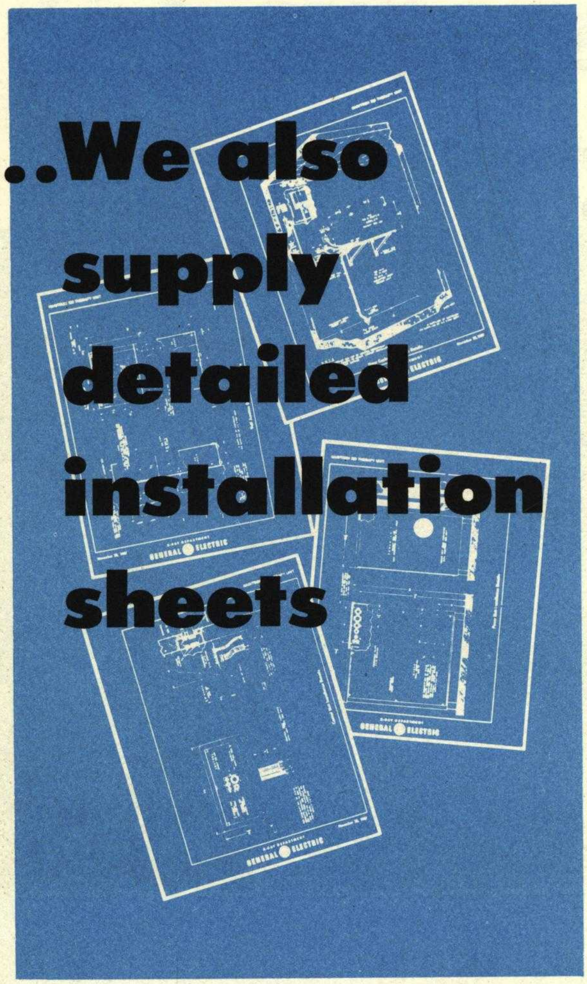
Size of a hospital is no indication of its x-ray needs. Requirements vary widely due to other significant factors. Thus, in lending aid for a proposed project, our representative first assembles information by careful preliminary survey and through personal discussions with the architect, radiologist, administrator and others. Data is forwarded to our headquarters *Installation Planning Service* in Milwaukee, where preliminary layouts are prepared combining to best advantage the ideas of all those working on the project. Based upon review and revision of these preliminary plans by all concerned, final detailed layouts of each section of the proposed department are prepared and supplied.

Final layouts of each area are complete and exact



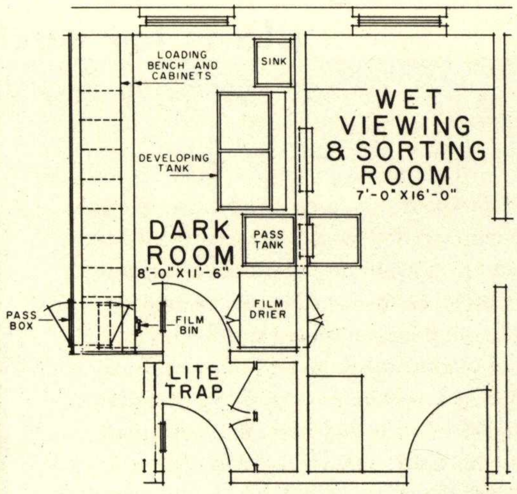
Layout service (cont.)

...We also supply detailed installation sheets



In addition to the detailed layout for each section of the x-ray department, General Electric supplies individual installation sheets for each piece of equipment and major accessory. All electrical, power and plumbing instructions are on these sheets, as well as wall openings required. Shown here are typical examples of these installation sheets, which enable you to more easily and efficiently complete your x-ray department.

Film processing



A typical darkroom plan provides ample space for complete processing of films at maximum efficiency. Providing separate wet and dry sides of the darkroom will eliminate congestion and help prevent spilling of film-processing solutions on cassettes and films at the loading bench.

In order to keep harmful light from accidentally entering the darkroom, either a maze or a door which can be interlocked should be provided. There should also be red and white lights outside the light lock to indicate which corresponding darkroom light is on.

Transfer of exposed and unexposed cassettes to and from the diagnostic area is most conveniently done through a cassette pass box. Finished films are immediately available through the pass tank which opens into the wet-viewing and sorting room, where they may be viewed on illuminators.

mazes

If traffic warrants the extra space required, a maze, wide enough for easy passage, is suggested instead of an interlocking door.

water supply and valving

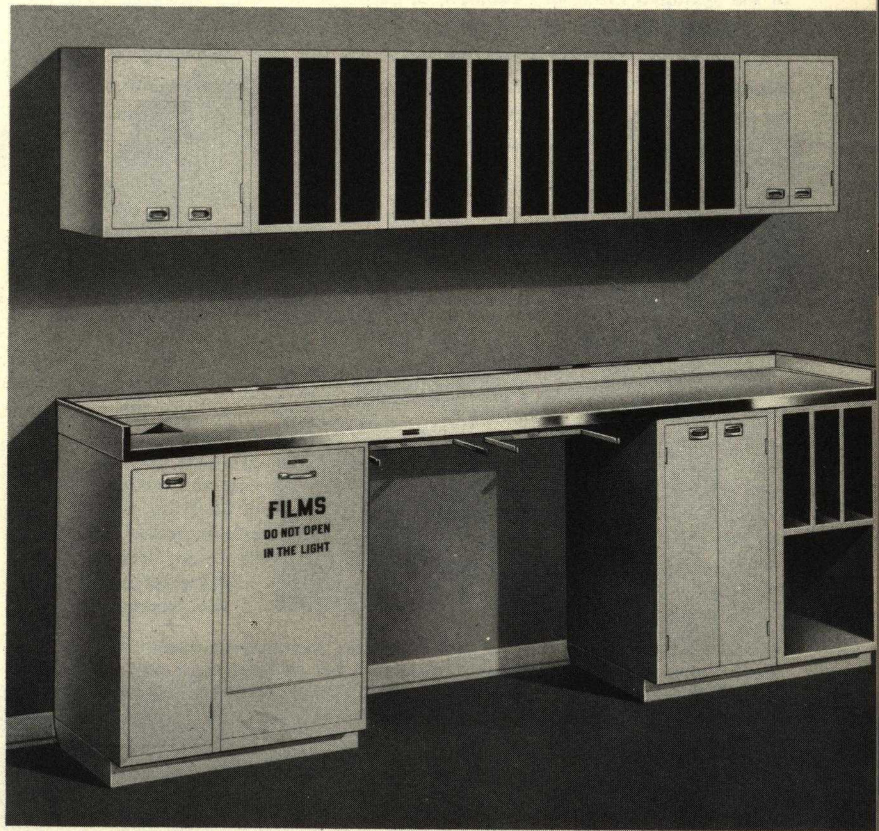
Hot, cold and in some instances refrigerated water must be supplied to keep film processing solutions at 68°F. Use shutoff valves in darkroom plumbing system, so that individual lines or units can be cut out without affecting operations.

acid resisting pipe

Film-processing tank, sink and floor drain should be connected to a good grade of acid-resistant drainpipe with suitable traps.

Sectional darkroom cabinets

Sectional Darkroom Cabinets offer a complete range of storage and work facilities, in whatever combination is best suited for the particular darkroom being designed. Cabinets for storage, cassettes, a waste bin and film identifier, as well as fillers, are all of gray metal. The benchtop, which is cut to specification, has a top of either gray Textolite or gray linoleum. Illustrations of each unit and exact dimensions are shown in Pub. 7E-3612, which is available upon request.



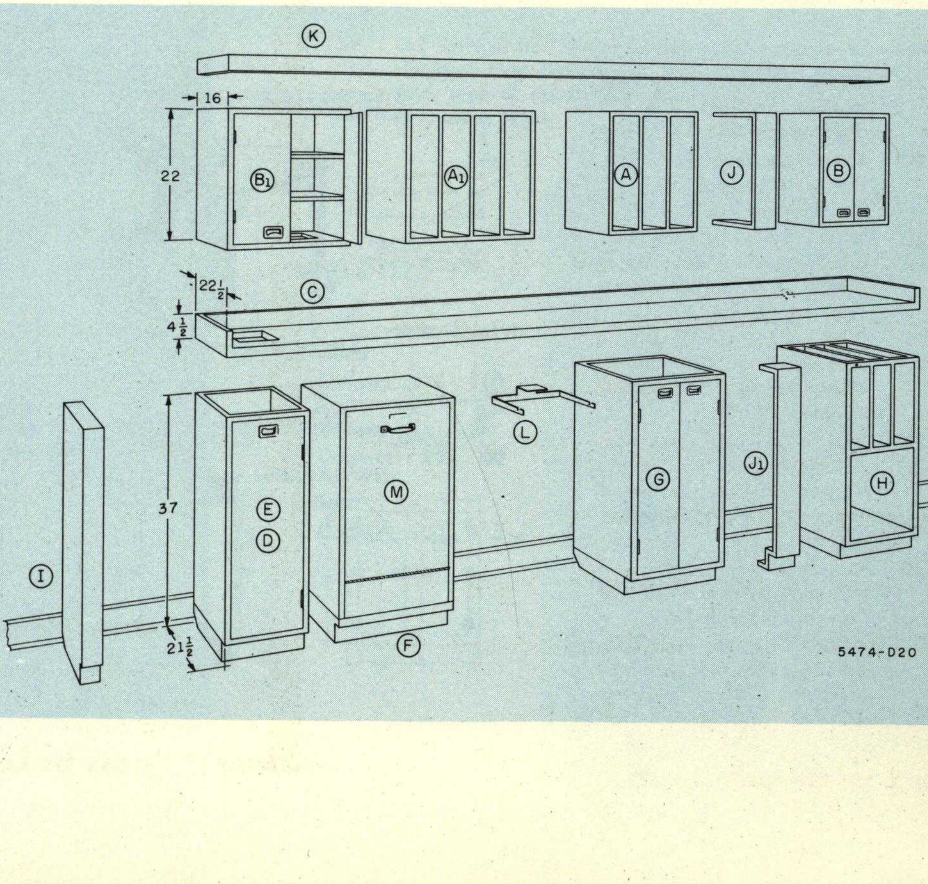
	CAT. NO.	WIDTH	NO.
A	E1168A	18	
A_1	E1168B	24	
B	E1168C	18	
B_1	E1168D	18	
C	E1168H	*	
D	E1168AD	12	
E	E1168AE	12	
F	E1168AF	18	
G	E1168AC	18	
H	E1168AB	18	
I	E1168AG	3	
J	E1168E	$1, 1\frac{1}{2}, 2, 3, 6$	
J_1	E1168AH	$1, 1\frac{1}{2}, 2, 3, 6$	
K	E1168F	**	
L	E1016D	$16\frac{1}{2}$	
M	E1056A	18	

NOTE:

B_1 WITH CUTOUT FOR SAFELIGHT.

** ANY DESIRED LENGTH, 2",3",4" OR 8" HIGH

* ANY DESIRED LENGTH.

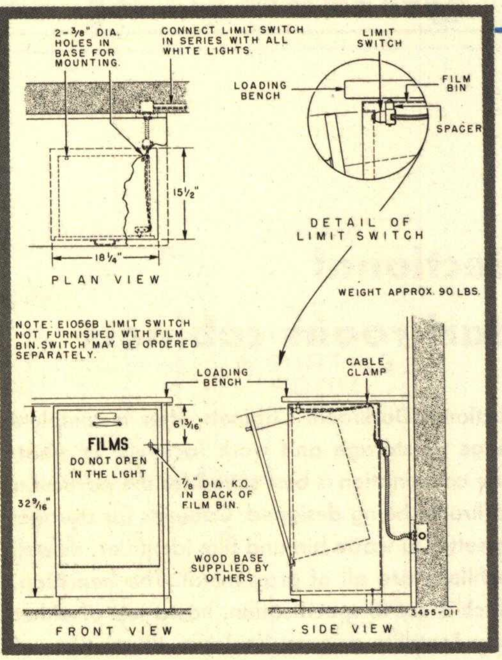


Adaptosize film-storage bin

The G-E Adaptosize Film-Storage Bin may be installed under the loading bench of the Sectional Darkroom Cabinets, or as a unit in itself. Adjustable adapters are furnished to allow boxes of film of various sizes to be stored upright with the upper edge on a level with the top of the bin. The film-storage bin has a dependable light trap construction and provision is made for the installation of an optional limit switch (E1056B) which automatically cuts off the white light in the room when the bin is opened.

Cat. No.	
E1056A	G-E Adaptosize Film-Storage Bin, supplied with adapters. Weight: Net—98# Shipping—110#
E1056B	Limit Switch

G-E Adaptosize Film Storage Bin



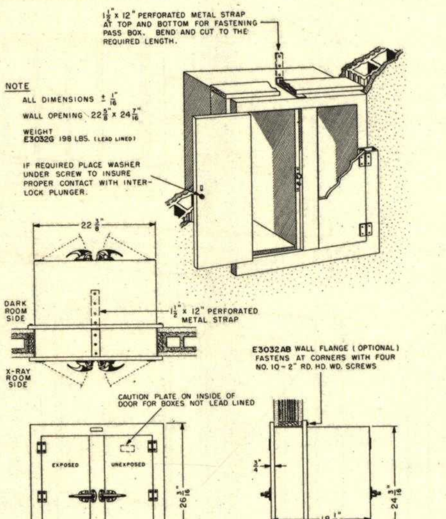
NOTE: E1056B LIMIT SWITCH NOT FURNISHED WITH FILM BIN. SWITCH MAY BE ORDERED SEPARATELY.

film bin

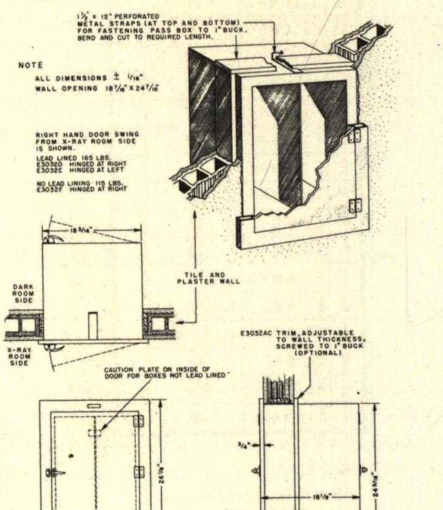
Cassette pass boxes

The cassette pass box, constructed of heavy-gage steel and terne plate, and interlined with 1/16" sheet lead, permits safe, two-way transfer of cassettes between the darkroom and radiographic room. Choice includes automatic or manual door interlocks . . . 2- and 4-door models . . . and a double-capacity, 4-door, manual interlock model.

E3032A	4-Door Cassette Pass Box, manual interlock; net 200 lbs, shipping 235 lbs.
E3032C	4-Door Cassette Pass Box, manual interlock; net 175 lbs, shipping 220 lbs.
E3032D	2-Door Cassette Pass Box, automatic interlock, doors hinged on right; net 165 lbs, shipping 195 lbs.
E3032E	2-Door Cassette Pass Box, automatic interlock, doors hinged on left; net 165 lbs, shipping 195 lbs.
E3032F	2-Door Cassette Pass Box, automatic interlock, doors hinged on right, no lead liner; net 100 lbs, shipping 135 lbs.
E3032G	4-Door Cassette Pass Box, automatic interlock; net 200 lbs, shipping 235 lbs.
E3032H	4-Door Cassette Pass Box, double width, manual interlock; net 275 lbs, shipping 335 lbs.


1½" x 12" PERFORATED METAL STRAP AT TOP AND BOTTOM FOR FASTENING PASS BOX. BEND AND CUT TO THE REQUIRED LENGTH.
22 3/8"
DARK ROOM SIDE
1½" x 12" PERFORATED METAL STRAP
X-RAY ROOM SIDE
E3032AB WALL FLANGE (OPTIONAL) FASTENS AT CORNERS WITH FOUR NO. 10 - 2" RD. HD. WD. SCREWS
CAUTION PLATE ON INSIDE OF DOOR FOR BOXES NOT LEAD LINED
EXPOSED
UNEXPOSED
26 3/16"
24 3/8"
3/4"
18 1/8"
24 3/16"
42½" TO FLOOR
3559-D23

NOTE
ALL DIMENSIONS ± 1/16"
WALL OPENING 22 5/8" x 24 7/16"
WEIGHT
E3032G 198 LBS. (LEAD LINED)
IF REQUIRED PLACE WASHER UNDER SCREW TO INSURE PROPER CONTACT WITH INTERLOCK PLUNGER.

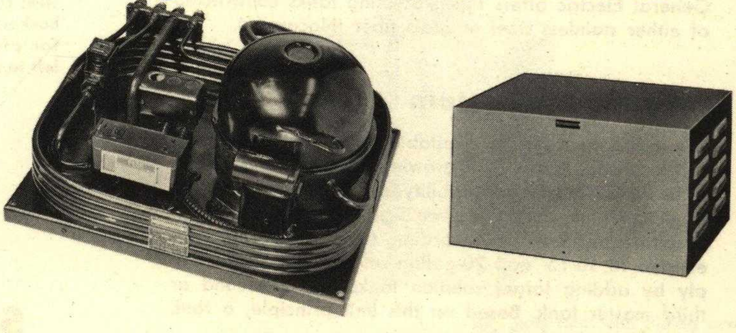

1½" x 12" PERFORATED METAL STRAPS (AT TOP AND BOTTOM) FOR FASTENING PASS BOX TO 1" BUCK. BEND AND CUT TO REQUIRED LENGTH.
18 3/16"
DARK ROOM SIDE
TILE AND PLASTER WALL
X-RAY ROOM SIDE
E3032AC TRIM, ADJUSTABLE TO WALL THICKNESS, SCREWED TO 1" BUCK (OPTIONAL)
CAUTION PLATE ON INSIDE OF DOOR FOR BOXES NOT LEAD LINED
26 1/8"
20 3/16"
3/4"
18 1/8"
24 3/16"
42½" TO FLOOR
BRACKET BY OTHERS

NOTE
ALL DIMENSIONS ± 1/16"
WALL OPENING 18 7/16" X 24 7/16"
RIGHT HAND DOOR SWING FROM X-RAY ROOM SIDE IS SHOWN.
LEAD LINED 165 LBS.
E3032D HINGED AT RIGHT
E3032E HINGED AT LEFT
NO LEAD LINING 115 LBS.
E3032F HINGED AT RIGHT
3" WIDE REINFORCING STRIP ON INSIDE ALONG REAR EDGE OF BOTTOM. FASTEN BRACKET WITH 1/4" SHEET METAL SCREWS IN HOLES PROVIDED. DO NOT PIERCE LEAD LINING ATTACHED TO INNER WALLS.

4-door pass boxes 2-door

G-E Refrigerated Water Cooler with three cooling elements.

Refrigerated water coolers



The one-tier cabinet contains one cooling unit.

The General Electric Refrigerated Water Cooler is built around a basic cartridge-type refrigeration element, capable of cooling 40 gallons of water an hour from 85F to 65F. This cooling element can be obtained in a single-tier cabinet less than 12" high, or, if water cooling demands are great, in a three tier cabinet which will accept one, two or three of these elements. If desired, one element can be purchased at a time, and the others added as water cooling needs increase.

A remote cold-control, placed in the rinse compartment of the developing tank monitors the continuously flowing water delivered by the cooler so that the tank water remains within ±2° of optimum processing temperature, and the solutions remain at ±1°. All electrical components of the cooler and cold controls are Underwriter's approved.

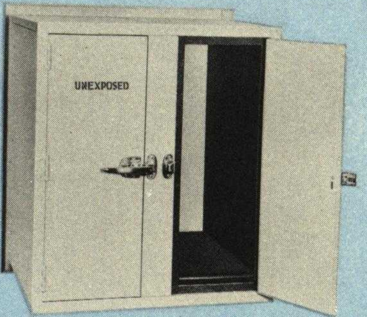
power service

One basic G-E water cooler unit requires 15-amp-115-v outlet with provision for grounding.

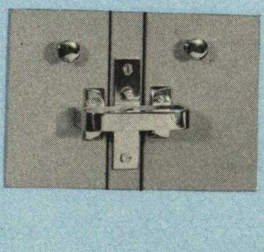
Cat. No.

E1150 G-E Refrigerated Water Cooler; specify number of elements, single or three-tier cabinet, with or without plumbing manifold, type of remote cold control (state make and style of processing tank).

2-door cassette pass box



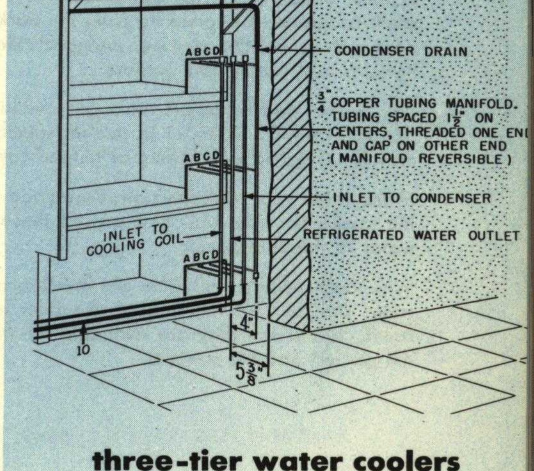
4-door cassette pass box



Manual interlock

WEIGHTS (lbs)

	Net	Shipping
Cooling Element	110	150
Single-tier Cabinet	20	30
3-tier Cabinet	100	115


CABINET
CONDENSER DRAIN
ABCD
3/4" COPPER TUBING MANIFOLD. TUBING SPACED 1 1/2" ON CENTERS, THREADED ONE EN
AND CAP ON OTHER END (MANIFOLD REVERSIBLE)
ABCD
INLET TO CONDENSER
INLET TO COOLING COIL
REFRIGERATED WATER OUTLET
ABCD
4"
10
5 3/8"

three-tier water coolers

Film processing tanks

General Electric offers film-processing tanks constructed of either stainless steel or glass fiber (Nocorode).

master-tank system

The master-tank system, available in either stainless steel or Nocorode, is ideal for growing laboratories because of its flexibility and adaptability. Starting with one basic, or master tank, containing two 5-gallon solution tanks, a hospital can, without discarding a single master unit, expand to 10-15- and 20-gallon solution capacities simply by adding larger solution tanks and a second or third master tank. Based on this unit principle, a tank never becomes obsolete.

backgrounds

Backgrounds are available for single tanks or any combination of tanks. Each stainless-steel background contains a thermostatic mixing valve, dial thermometer, shut-off valves, vacuum breaker, mixing system, interconnecting plumbing and 8 x 10″ safelight. Most sizes also include a 14 x 17″ illuminator.

Nocorode tank backgrounds contain mixing valve assembly and dial thermometer.

insulation and refrigeration

All stainless-steel tanks have 1½″ of spun-glass insulation built into all four sides and bottom. Refrigeration can be obtained in one of two ways: either by purchasing a "coldwall" type stainless-steel tank which has the cooling coils imbedded within the tank walls, or by having a refrigeration element (exactly as that found in the refrigerated water cooler, see page 7), installed in the base of the tank.

Nocorode tanks are available either insulated or non-insulated. The insulation is one-inch thick glass fiber between the inner and outer walls and the bottom of the tank.

pass tanks

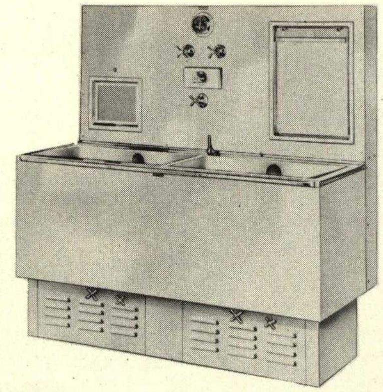
Pass tanks make it possible to pass wet films through the wall of the darkroom to the lightroom side of the radiographic department. This can considerably lessen darkroom congestion by removing from the darkroom operations such as wet film viewing, drying of films, unloading hangers and cutting film corners.

Both water- and fixer-pass tanks are available in standard 30″ and 48″ sizes, or in smaller special sizes. They may be obtained with sliding or hinged covers.

In the water-pass tank films are developed and fixed on the darkroom side and then passed through the wash water to the lightroom.

With the fixer-pass tank films are developed in the darkroom and then passed through the fixer into the lightroom. In this way they are available for wet viewing at the earliest possible moment.

Special 60″ stainless-steel master tank, with background, arranged for processing from left to right.



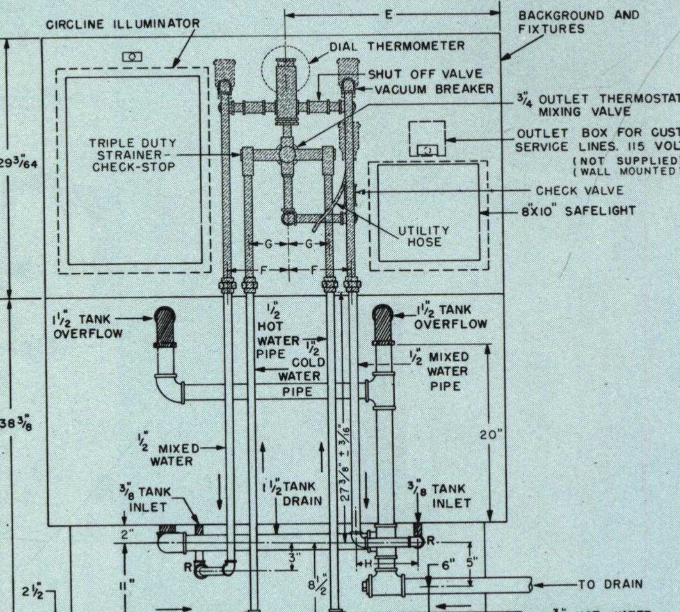
Stainless-steel master tanks

Master Tank Size*	Length	Width	Height
30″	33¼″	23⅛″	39½″
48″	51¼″	23⅛″	39½″
60″	63¼″	23⅛″	39½″

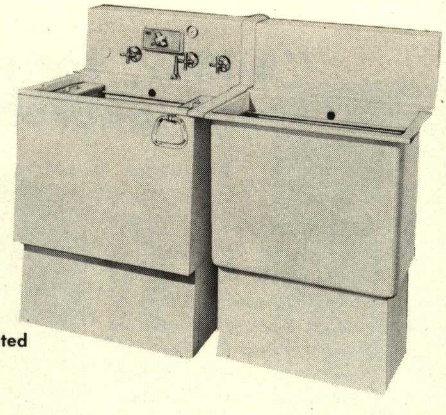
*Available without refrigeration, with refrigeration unit in base, or with cooling coils imbedded in tank walls.

Stainless-steel backgrounds

For Master Tank Size	Length	Width	Height
30″	33¼″	7½″	29″
48″	51¼″	7½″	29″
60″	63¼″	7½″	29″
Two 30″	67″	7½″	29″



TYPICAL PLUMBING OF 48″, 60″ OR TWO 30″ STAINLESS-STEEL MASTER TANKS WITH MIXING VALVE ASSEMBLY



Nocorode glass-fiber tank installation combining insulated and noninsulated models.

Nocorode master tanks

(without backgrounds)

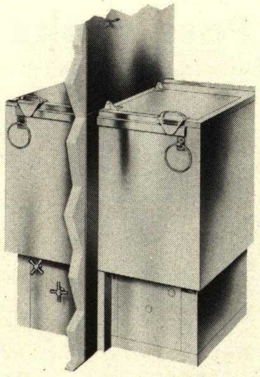
OUTSIDE (OVERALL — NONINSULATED)

	Length	Front to Back	Height
Tank	33½″	20¾″	23¾″
Base	27⅜″	14½″	14½″

OUTSIDE (OVERALL — INSULATED)

	Length	Front to Back	Height
Tank	33½″	20¾″	24¾″
Base	32⅞″	17⅜″	14½″

Backgrounds:
Overall size — 33½″ long; 10½″ front to back; 15⅜″ high.



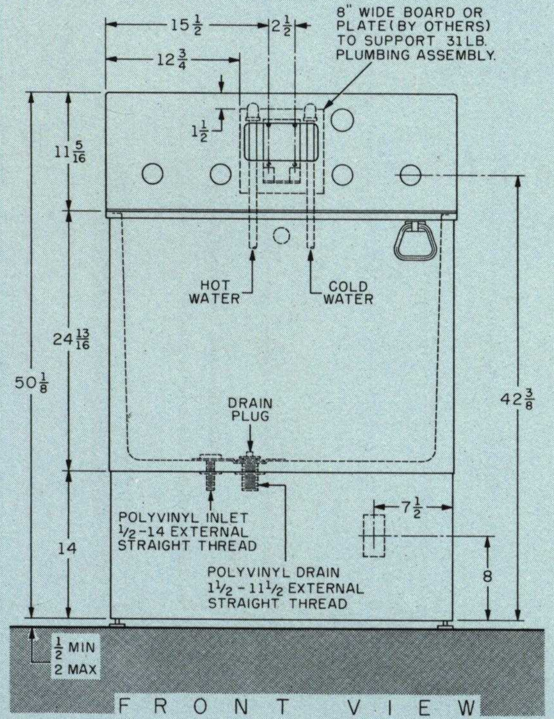
30″ pass tank with sliding covers.

Pass tanks

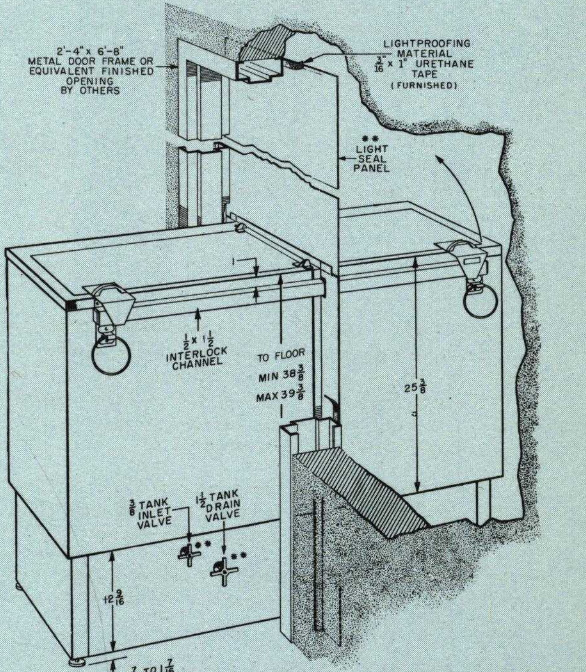
	Length	Width*	Height†
30″	33¼″	23¾″	flat — 39½″ hooded — 50¼″
48″	51¼″	23¾″	flat — 39½″ hooded — 50¼″

*without wall filler panel; add 7⅜″ for panel

†without wall filler panel; with panel — 81½″


15 1/2
2 1/2
12 3/4
8" WIDE BOARD OR PLATE (BY OTHERS) TO SUPPORT 31LB. PLUMBING ASSEMBLY.
1 1/2
11 5/16
24 13/16
50 1/8
42 3/8
HOT WATER
COLD WATER
DRAIN PLUG
POLYVINYL INLET 1/2-14 EXTERNAL STRAIGHT THREAD
7 1/2
14
8
POLYVINYL DRAIN 1 1/2 - 11 1/2 EXTERNAL STRAIGHT THREAD
1/2 MIN
2 MAX
FRONT VIEW

INSULATED GLASS FIBER PROCESSING TANKS


2'-4" x 6'-8" METAL DOOR FRAME OR EQUIVALENT FINISHED OPENING BY OTHERS
LIGHTPROOFING MATERIAL 3/16" x 1" URETHANE TAPE (FURNISHED)
** LIGHT SEAL PANEL
1
1/2 x 1 1/2 INTERLOCK CHANNEL
TO FLOOR MIN 38 3/8 MAX 39 3/8
25 3/8
3/8 TANK INLET VALVE
1 1/2 TANK DRAIN VALVE
**
**
12 9/16
7/16 TO 1 7/16

NOTES

* LOCATION OF VALVES FOR RIGHT TO LEFT PROCESSING.

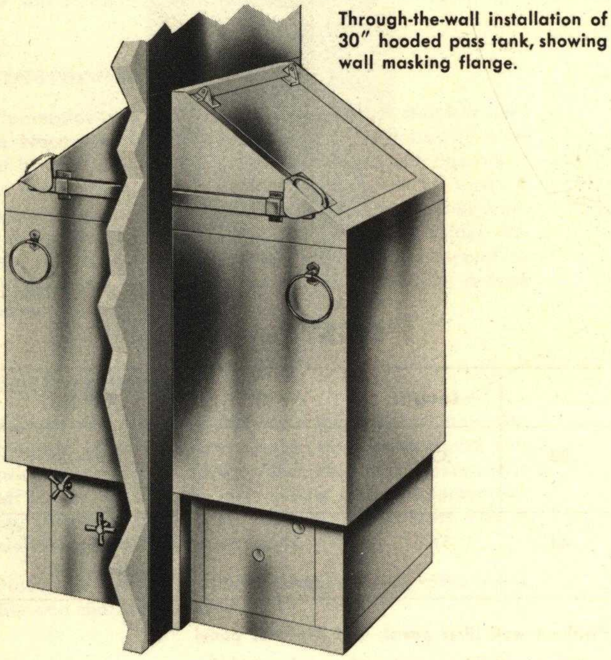
** SUPPLIED WITH TANK.

TANK INSTALLATION, CONNECTION AND ALL NECESSARY PIPES AND FITTINGS (SHOWN SHADED) BY OTHERS

30″ or 48″ STAINLESS STEEL PASS TANK

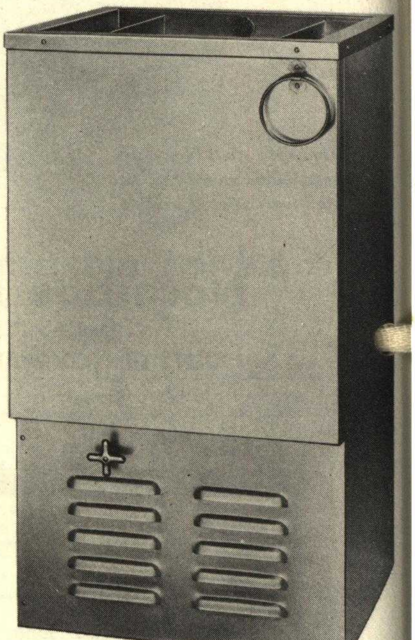
Processing tanks (cont.)

Pass tanks



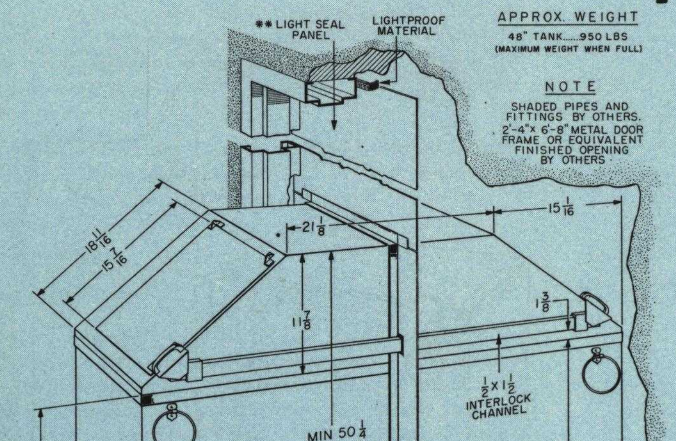
Through-the-wall installation of 30″ hooded pass tank, showing wall masking flange.

"5-15-5" for the small laboratory

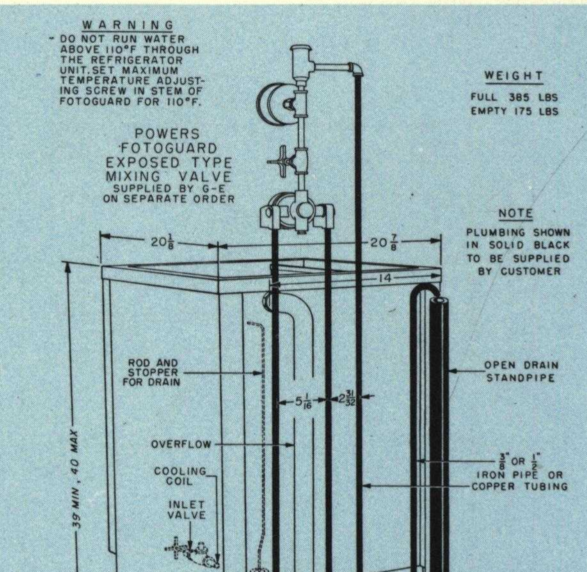


Here is a tank with 25-gallon capacity (5 gallons of developer, 5 of fixer and 15 of wash water). Made of stainless steel, it is available in three styles: insulated, refrigerated; insulated, non-refrigerated; noninsulated, non-refrigerated.

E1162E	Insulated, refrigerated model
E1162F	Insulated, nonrefrigerated model
E1162AB	Noninsulated, nonrefrigerated model


** LIGHT SEAL PANEL
LIGHTPROOF MATERIAL
APPROX. WEIGHT
48" TANK......950 LBS
(MAXIMUM WEIGHT WHEN FULL)
NOTE
SHADED PIPES AND FITTINGS BY OTHERS.
2'-4"x 6'-8" METAL DOOR FRAME OR EQUIVALENT FINISHED OPENING BY OTHERS
$15\frac{1}{16}$
$21\frac{1}{8}$
$18\frac{11}{16}$
$15\frac{7}{16}$
$11\frac{7}{8}$
$1\frac{3}{8}$
$\frac{1}{2}\times1\frac{1}{2}$ INTERLOCK CHANNEL
MIN $50\frac{1}{4}$
MAX $51\frac{1}{4}$
$25\frac{3}{8}$
LIGHTPROOFING MATERIAL $\frac{3}{16}$"x1" URETHANE TAPE (FURNISHED)
MIN $38\frac{3}{8}$
MAX $39\frac{3}{8}$
$1\frac{1}{2}$ ** I.P.S. TANK DRAIN
$\frac{3}{8}$ ** I.P.S. TANK INLET
$12\frac{9}{16}$
$\frac{7}{16}$ TO $1\frac{7}{16}$

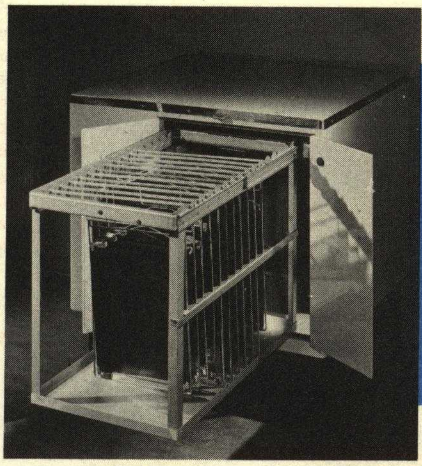
48″ INSULATED HOODED PASS TANK

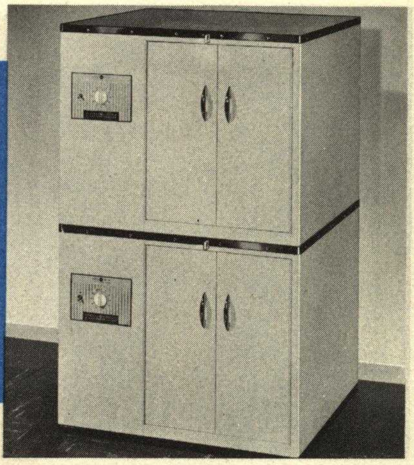

WARNING
DO NOT RUN WATER ABOVE 110°F THROUGH THE REFRIGERATOR UNIT. SET MAXIMUM TEMPERATURE ADJUSTING SCREW IN STEM OF FOTOGUARD FOR 110°F.
POWERS FOTOGUARD EXPOSED TYPE MIXING VALVE SUPPLIED BY G-E ON SEPARATE ORDER
WEIGHT
FULL 385 LBS
EMPTY 175 LBS
NOTE
PLUMBING SHOWN IN SOLID BLACK TO BE SUPPLIED BY CUSTOMER
$20\frac{1}{8}$
$20\frac{7}{8}$
14
ROD AND STOPPER FOR DRAIN
$5\frac{1}{16}$
$2\frac{31}{32}$
OPEN DRAIN STANDPIPE
OVERFLOW
COOLING COIL
INLET VALVE
$\frac{3}{8}$" OR $\frac{1}{2}$" IRON PIPE OR COPPER TUBING
39 MIN, 40 MAX
$4\times2\frac{1}{8}\times1\frac{7}{8}$ DEEP JUNCTION BOX FOR 115 VOLT, 60 CY 10 AMP SERVICE
$4\frac{3}{4}$
COLD
HOT
$\frac{1}{2}$ IRON PIPE OR COPPER TUBING
$4\frac{1}{2}$
$4\frac{1}{4}$
$3\frac{1}{4}$
$1\frac{1}{4}$ OR $1\frac{1}{2}$ IRON PIPE
TO DRAIN AND TRAP
$\frac{3}{8}$ IPS INLET TO CONDENSER AND COOLING COIL
$\frac{3}{8}$ IPS CONDENSER DRAIN
5-15-5
ELECTRICAL SYMBOL SEE INSTALLATION PLANNING LAYOUT

PLUMBING OF 5-15-5 REFRIGERATED STAINLESS STEEL FILM PROCESSING TANK WITH MIXING VALVE ASSEMBLY

Circlair driers

The G-E Circlair Drier has an unequalled output rate for a drier of its size and price. It will hold fifteen 14″ x 17″ films and dry from 240 to 270 films in an 8 hour day. It can be stacked to conserve space, and can be installed through a wall, as there are doors at front and back of the drier. The timer can be preset for any period up to 55 minutes or for continuous operation. The Circlair is constructed of welded bonderized steel and finished in gray baked enamel. Various types of bases and ornamental wall flanges are also available.





power service

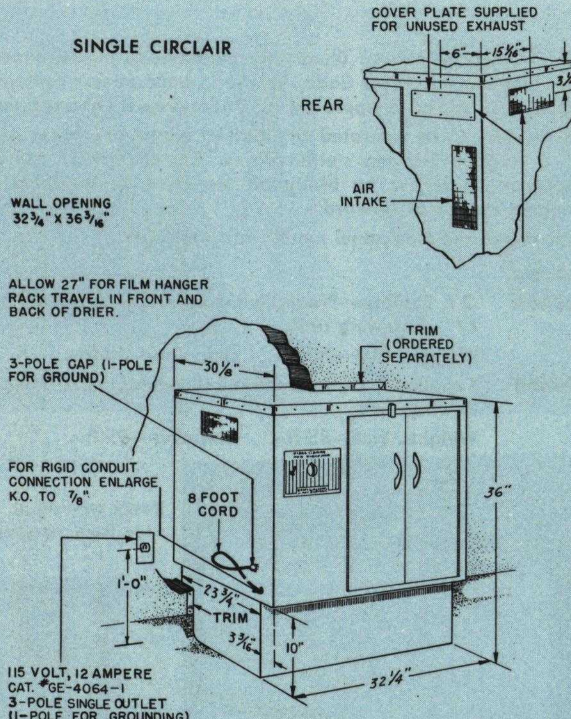
Supply 15-ampere 115-volt service for each drier to be installed. One or more convenience outlets will be adequate unless local codes require permanent installation with solid conduit.

venting

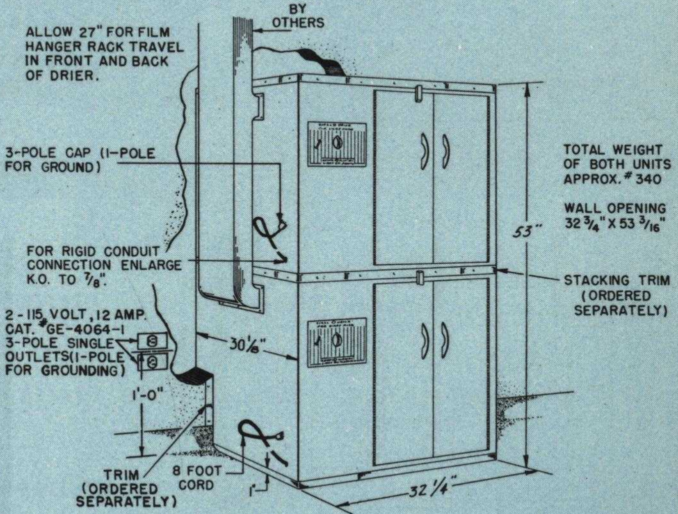
Film drier is equipped with an adapter to take standard 3¼″ x 10″ duct. Air circulation rate is 67½ cfm with an outlet velocity of 300 fpm at the vent.

Cat. No.	
E1077	Circlair Film Drier (state if high or low base is desired—low base is used when two driers are stacked; high base is used if only one drier is installed).

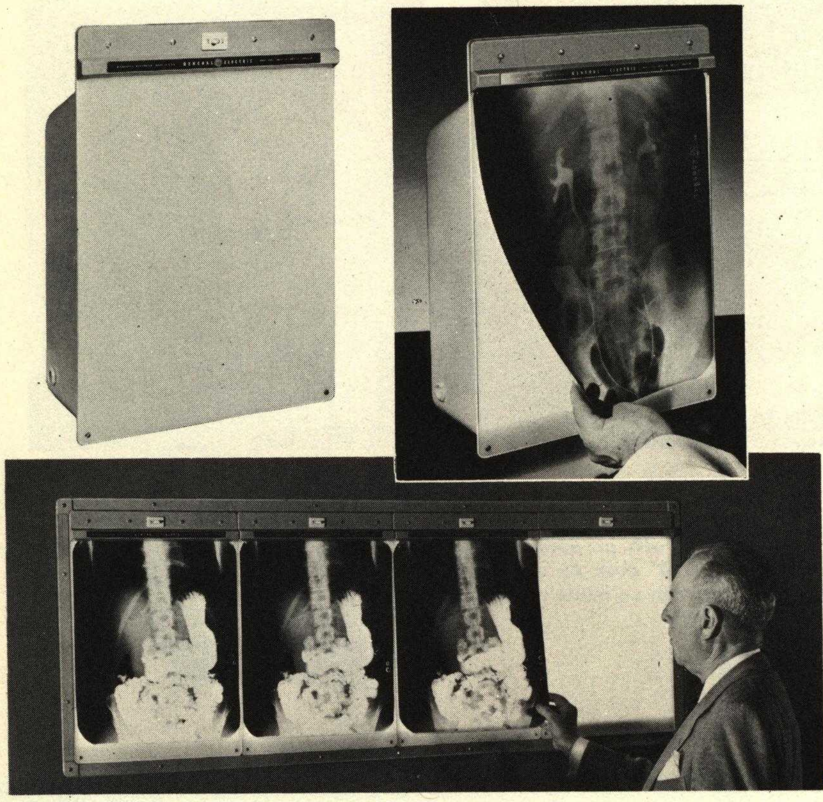
SINGLE CIRCLAIR


COVER PLATE SUPPLIED FOR UNUSED EXHAUST
6″
15 1/16″
3/4
REAR
SIDE
AIR INTAKE
WALL OPENING 32 3/4″ x 36 3/16″
ALLOW 27″ FOR FILM HANGER RACK TRAVEL IN FRONT AND BACK OF DRIER.
3-POLE CAP (1-POLE FOR GROUND)
30 1/8″
TRIM (ORDERED SEPARATELY)
FOR RIGID CONDUIT CONNECTION ENLARGE K.O. TO 7/8″.
8 FOOT CORD
36″
1′-0″
23 3/4″
TRIM
3 3/16″
10″
32 1/4″
115 VOLT, 12 AMPERE CAT. #GE-4064-1 3-POLE SINGLE OUTLET (1-POLE FOR GROUNDING)

STACKED CIRCLAIR


BY OTHERS
ALLOW 27″ FOR FILM HANGER RACK TRAVEL IN FRONT AND BACK OF DRIER.
3-POLE CAP (1-POLE FOR GROUND)
FOR RIGID CONDUIT CONNECTION ENLARGE K.O. TO 7/8″.
2-115 VOLT, 12 AMP. CAT. #GE-4064-1 3-POLE SINGLE OUTLETS (1-POLE FOR GROUNDING)
30 1/8″
1′-0″
TRIM (ORDERED SEPARATELY)
8 FOOT CORD
1″
32 1/4″
53″
TOTAL WEIGHT OF BOTH UNITS APPROX. # 340
WALL OPENING 32 3/4″ X 53 3/16″
STACKING TRIM (ORDERED SEPARATELY)

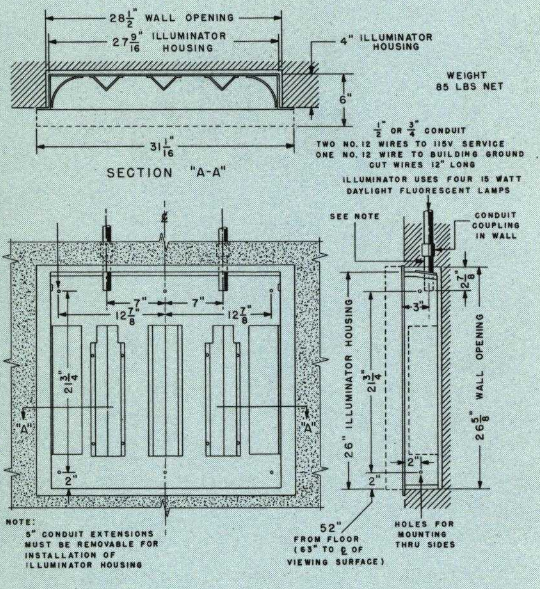
Truvision illuminator



Molded fiber glass construction makes this illuminator entirely corrosion-PROOF. In addition, the housing is much more shock-resistant than conventional metal shells. Brilliant, shadowless and evenly distributed lighting provides unparalleled radiographic illumination. Available in both single and multiple units, with toggle-switch, this illuminator can be recessed in a wall, or mounted on a desk or shelf, on a 45° angled wall bracket, or on a mobile stand. Underwriter's Laboratories approved. Ask for Pub. 7E-3803.

Cat. No.	
E5068	14" x 17" Truvision Illuminator; state whether illuminator will be wall-recessed.
E5070A	Kit for Multiple Mounting of E5068 Illuminators.
E5071A	Plastic trim strip, 72" long, for wall-recess mounting of E5068C and D illuminators.
E5071B	Plastic Trim Corners, set of four, for use with E5071A Trim Strip.
E5069A	Drip Tray Set.
E5075	Mobile Stand.
E5076	Wall Bracket.
E5078A	Roughing In Box.

Explosion-proof illuminators



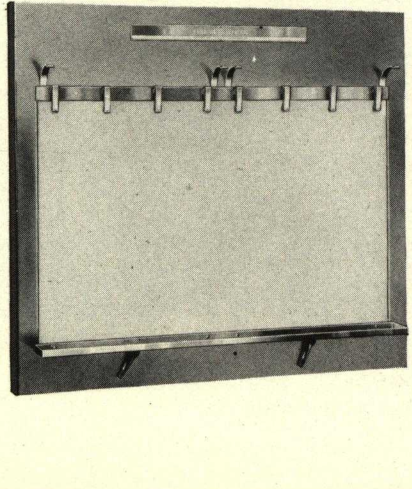
28½" WALL OPENING
27 9/16" ILLUMINATOR HOUSING
4" ILLUMINATOR HOUSING
WEIGHT 85 LBS NET
6"
31 1/16"
SECTION "A-A"
½" OR ¾" CONDUIT
TWO NO. 12 WIRES TO 115V SERVICE
ONE NO. 12 WIRE TO BUILDING GROUND
CUT WIRES 12" LONG
ILLUMINATOR USES FOUR 15 WATT DAYLIGHT FLUORESCENT LAMPS
℄
SEE NOTE
CONDUIT COUPLING IN WALL
7"
7"
12 7/8"
12 7/8"
21¾"
"A"
"A"
2"
2 7/8"
3"
26" ILLUMINATOR HOUSING
21¾"
26⅝" WALL OPENING
2"
2"
NOTE:
5" CONDUIT EXTENSIONS MUST BE REMOVABLE FOR INSTALLATION OF ILLUMINATOR HOUSING
52" FROM FLOOR (63" TO ℄ OF VIEWING SURFACE)
HOLES FOR MOUNTING THRU SIDES

The G-E Explosion-Proof Illuminator conforms to the requirements of Article 500, National Electrical Code, for use in atmospheres containing ethyl ether vapor, and has been approved by Underwriters' Laboratories.

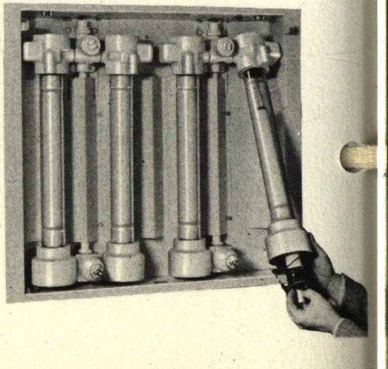
The switch can be operated by hand or elbow, the latter being convenient for a surgeon wearing sterile gloves. The illuminator can be opened for inspection or service by lifting off the front, un-snapping the catch and swinging the lamps forward.

Both single and twin-panel models are available.

Cat. No.	
E5046A	G-E Explosion-Proof Illuminator, 118-v., 60-cy., providing 14" x 17" of viewing area. Weights: Net—50 lbs. Shipping—60 lbs.
E5046B	Twin-Panel Explosion-Proof Illuminator, providing 28" x 17" of viewing area. Weights: Net—85 lbs. Shipping—95 lbs.



Easily serviced or inspected through wide front opening.



INSTALLATION OF ROUGHING-IN-BOX FOR ONE, TWO OR FOUR TRUVISION ILLUMINATORS

ROUGHING-IN-BOX (SERVES AS BUCK, NOT AN ELECTRICAL JUNCTION BOX)

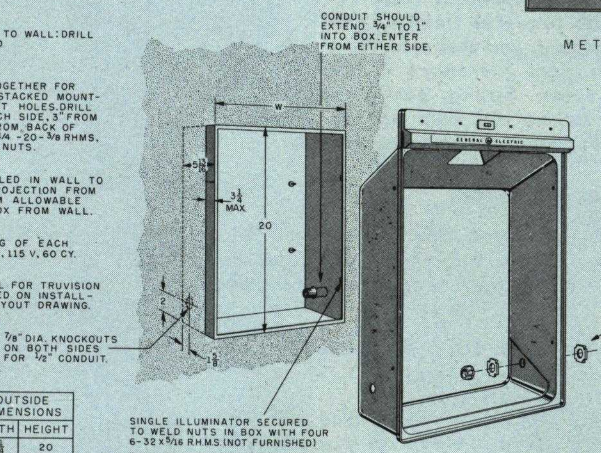
MUST BE FASTENED TO WALL: DRILL HOLES AS REQUIRED

MAY BE BUTTED TOGETHER FOR SIDE BY SIDE OR STACKED MOUNTING: ALIGN KNOCKOUT HOLES. DRILL TWO HOLES IN EACH SIDE, 3" FROM CORNERS AND 3" FROM BACK OF BOX. FASTEN WITH 1/4-20-3/8 RHMS, LOCKWASHERS AND NUTS.

BOX TO BE INSTALLED IN WALL TO OBTAIN MINIMUM PROJECTION FROM WALL. 3 1/4" MAXIMUM ALLOWABLE PROJECTION OF BOX FROM WALL.

ELECTRICAL RATING OF EACH ILLUMINATOR: 1 AMP, 115 V, 60 CY.

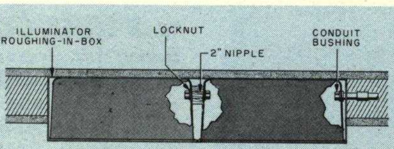
○ MI — ELECTRICAL SYMBOL FOR TRUVISION ILLUMINATOR AS USED ON INSTALLATION PLANNING LAYOUT DRAWING.


CONDUIT SHOULD EXTEND 3/4" TO 1" INTO BOX. ENTER FROM EITHER SIDE.
W
$5\frac{13}{16}$
$3\frac{1}{4}$ MAX.
20
2
$1\frac{5}{8}$
7/8" DIA. KNOCKOUTS ON BOTH SIDES FOR 1/2" CONDUIT.
GENERAL ELECTRIC

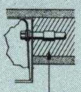
ILLUMINATOR ARRANGEMENT	OUTSIDE DIMENSIONS	
	WIDTH	HEIGHT
SINGLE	$14\frac{1}{4}$	20
BANK OF 2	$28\frac{1}{2}$	20
BANK OF 4	57	20
1 OVER 1	$14\frac{1}{4}$	40
2 OVER 2	$28\frac{1}{2}$	40
4 OVER 4	57	40

SINGLE ILLUMINATOR SECURED TO WELD NUTS IN BOX WITH FOUR 6-32 x 5/16 R.H.M.S. (NOT FURNISHED)

BANK OF TWO OR FOUR, FASTEN ILLUMINATORS TO WELD SCREWS ON BACK OF BOX USING 6-32 NUTS. (NOT FURNISHED)



PLAN VIEW
METHOD OF JOINING ILLUMINATORS



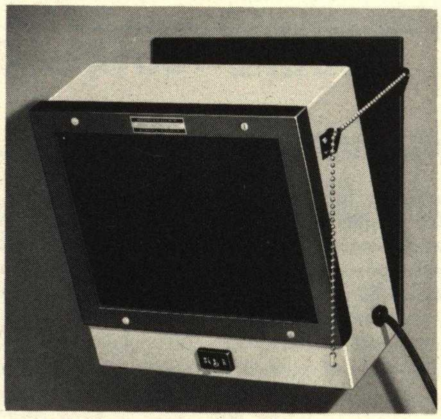
USE 1/2" NIPPLE, 2" LONG WHEN ROUGHING-IN-BOXES ARE BUTTED TOGETHER. THE BOXES ARE NOT SECURED WITH LOCKNUTS, NIPPLE "FLOATS" THROUGH HOLES IN BOXES.

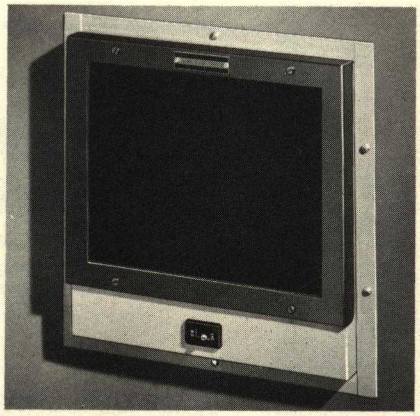
REMOVABLE CONDUIT COUPLING AND EXTENSION REQUIRED.

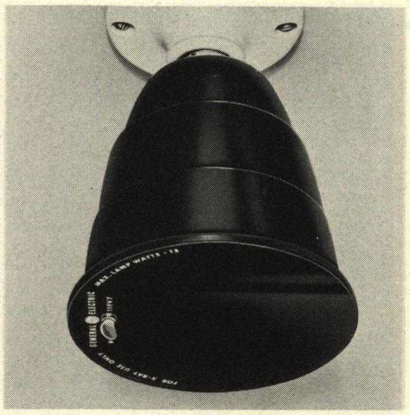
LOCKNUTS ON INSIDE AND OUTSIDE OF ILLUMINATOR CASE MUST BE TIGHT AGAINST GROUNDING PLATE AND CASE TO INSURE A GOOD GROUND.

		HEIGHT OF RECESSED WALL OPENING ABOVE THE FLOOR	
		TO LOWER EDGE OF OPENING	TO CENTERLINE OF OPENING
SINGLE BANK	SEATED VIEWING	34	44
	STANDING VIEWING	54	64
DOUBLE BANK	SEATED OR STANDING VIEWING	34	54

5542-D32





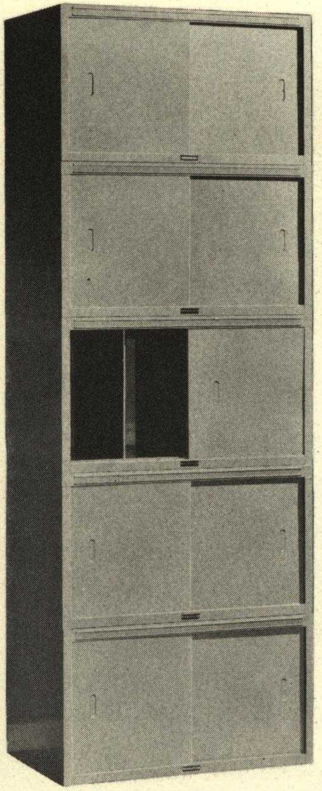


Safelights

General Electric provides a complete line of safelights for the processing room: a 5" x 7" adjustable safelight for wall or shelf-mounting; a 5" x 7", wall-mounted model, with a fixed-angle filter; an 8" x 10" safelight with an adjustable angle; an 8" x 10" combination safelight and viewer with adjustable angle. There is also a ceiling safelight which provides safe general illumination.

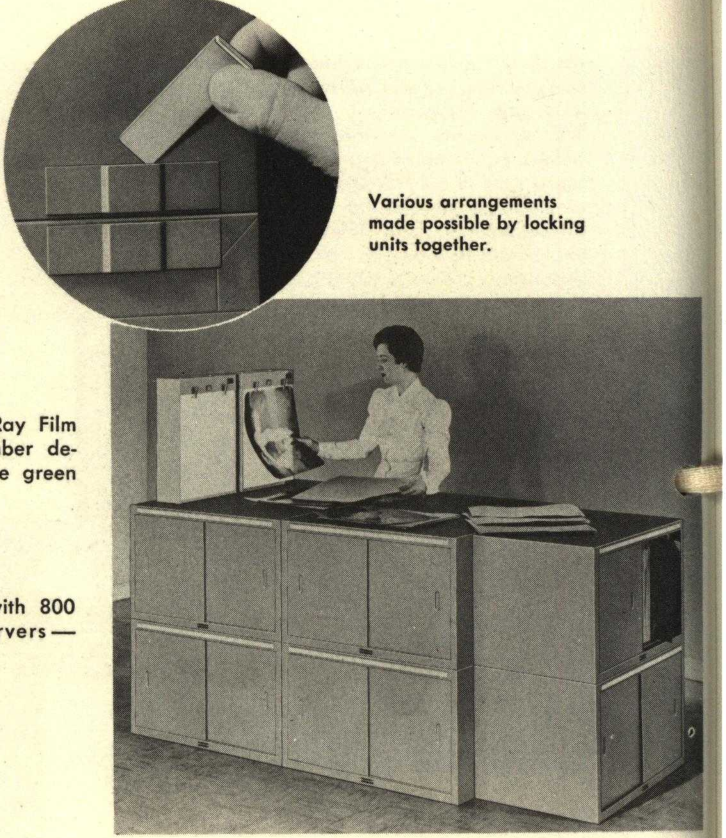
Cat. No.	
E1160A	5" x 7" Safelight, with bracket for wall or shelf mounting, 118-v., 7-watt lamp. Weights: Net—4½ lbs. Shipping—5 lbs.
E1160B	5" x 7" Safelight, wall-mounted, permanently angled filter, 118-v., 7-watt lamp. Weights: Net—4 lbs. Shipping—6 lbs.
E1161A	8" x 10" Safelight, adjustable, 118-v., two 7-watt lamps. Weights: Net—7½ lbs. Shipping—9½ lbs.
E1161B	8" x 10" Safelight, combination safelight and illuminator, adjustable; 118-v., three 7-watt lamps. Weights: Net—9 lbs. Shipping—11 lbs.
E1161C	8" x 10" Safelight, with flange for in-the-wall mounting; 118-v., two 7-watt lamps. Weights: Net—7 lbs. Shipping—9 lbs.
E1160C	Ceiling Safelight, for fluoroscopic or processing room; 118-v., 15-watt lamp. Weights: Net—½ lb. Shipping—1 lb.

Sectional space-savers



These unitized cabinets permit buying for present needs only, with the possibility of adding matching cabinets as filing needs increase. The modular construction also provides flexibility of arrangement, and shelf-type filing permits more file space in less floor space. Strong, easily inserted locking pins keep cabinets from slipping or sliding, when stacked.

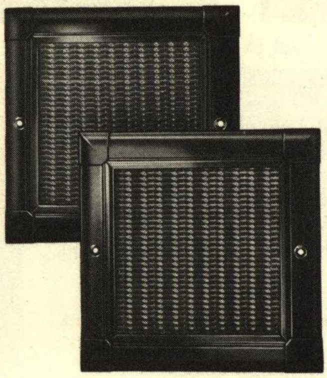
Cat. No.	
E2025	Sectional Space-Saver X-Ray Film Filing Cabinet (state number desired and if gray or olive green finish is desired).
Weights:	Single unit—Net—46 lbs. Shipping—60 lbs. Single unit when filled with 800 films in negative preservers—190 lbs.
Dimensions:	17⅞" high 31⅜" wide 14⅜" deep



Various arrangements made possible by locking units together.

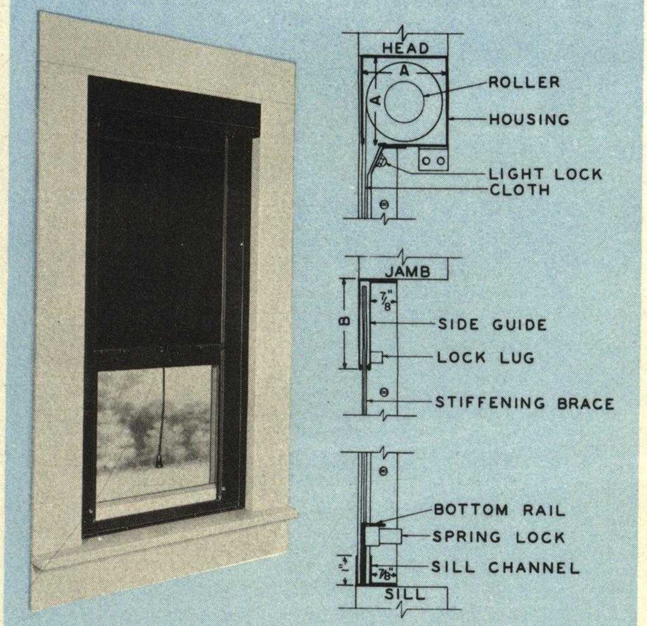
Lightproof speaking grille

Communication between rooms is facilitated by this small, lightproof, black metal, two-piece grille. It eliminates many trips into the darkroom and thereby cuts down work interruptions. Where pass boxes, pass tanks or wet film hanger pass boxes are used it is of particular value for conveying information concerning films to be passed back and forth.



Cat. No.	
E1167A	Lightproof Speaking Grille
Weight:	Net—3 lbs. Shipping—4 lbs.
Dimensions:	7⅞" square

RECESS-MOUNTED SHADE



"A" HOUSING DIMENSIONS		
HOUSING	WIDTH	HEIGHT
2½	UP TO 72	UP TO 60
3	96	60
3	60	96
3½	96	96
4	60	144
4½	96	144

"B" GUIDE DEPTH	
DEPTH	WIDTH
3	UP TO 48
4	66
5	OVER 66

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES

Lightproof shades

Lightproof shades are ideal for shutting out all outside light. They can be used in a fluoroscopic room, in an operating room or lecture halls to maintain controlled, identical lighting conditions at all times.

The shades are double-coated vinyl leatherette, with a flameproof coating on both sides which is permanent, water-repellent, crack-proof and pliable. The standard shades are black on both sides, but shades having one side black and the other with an aluminum-like coating are available at slightly higher cost. This coating, which would face the outside of the building, reflects light and sun and diminishes the heat build-up in the rooms being light-proofed.

The shades are mounted on an all-metal frame which fits *into* or over your present window frame. Its roller housing is steel, and there are roller bearings at each end. Music-wire coil springs control the heavy shade and retain their tension far better than other types of springs.

Available recess-mounted or face-mounted, in standard widths from 30" to 120"; lengths from 36" to 144" and in special sizes.

Ventilators

Darkroom side of ventilator

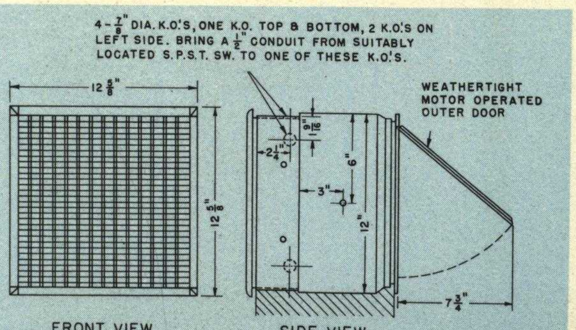
Lightroom side of ventilator

Interior shows fan and weathertight door

Capable of changing the air in a 10 x 10 x 10 foot room every four minutes, the two models of this fan both feature adjustable housings. The model for installation in an outside wall has a motor-operated, weather-tight door on the outside, operated simultaneously with the ventilator's motor. This unit can be adjusted to wall thicknesses of from 9½" to 14". The ventilator designed for installation in an inside partition or ceiling has a grille on the lightroom side, and the housing is adjustable from 6¼" to 8½". Both models have a lightproof grille on the darkroom side.

Cat. No.	
E1145A	260 CFM Electric Lightproof Ventilator, 115-v., 60 cy.; for outside wall installation. Weights: Net—57 lbs. Shipping—62 lbs.
E1145B	260 CFM Electric Lightproof Ventilator, 115-v., 60-cy.; for inside wall or partition installation, or ceiling installation. Weights: Net—50 lbs. Shipping—55 lbs.

4 - 7/8" DIA. K.O.'S, ONE K.O. TOP & BOTTOM, 2 K.O.'S ON LEFT SIDE. BRING A 1/2" CONDUIT FROM SUITABLY LOCATED S.P.S.T. SW. TO ONE OF THESE K.O.'S.



lightproof ventilator

- General Electric services for planning the ideal x-ray department are conveniently available through all local offices throughout the United States and Canada.

DISTRICT AND LOCAL OFFICES

General Office and Factory, 4855 Electric Ave., Milwaukee 1, Wis.

UNITED STATES

Alabama	Birmingham 5, Ala.......707-21 St. So. New Orleans 25, La...7715 Edinburgh St.
Arizona	Phoenix, Ariz........821 W. Adams St. San Diego 1, Calif........521 Grape St.
Arkansas	Little Rock, Ark.........3015 Lewis St. Memphis 3, Tenn.....778 Madison Ave. Oklahoma City, Okla..4030 N.W. 10th St. Tulsa 19, Okla.......1101 So. Main St.
California	Los Angeles 29, Calif. ....1225 North Vermont Ave. Phoenix, Ariz........821 W. Adams St. San Diego 1, Calif........521 Grape St. San Francisco 3, Calif..1269 Howard St.
Colorado	Denver 5, Colo.....3031 E. 40th Avenue Salt Lake City, Utah.215 South 4th East
Connecticut	Hartford, Conn....528 Farmington Ave. Springfield 3, Mass....365 Belmont Ave.
Delaware	Baltimore, Md...3012 Greenmount Ave. Philadelphia 32, Pa. ......Hunting Park Avenue at Ridge
Dist. of Columbia	Washington, D.C.....8710 Georgia Ave., N.W., Silver Spring, Md.
Florida	Birmingham 5, Ala.......707-21 St. So. Jacksonville, Fla.......210 West 8th St. Miami, Fla..........704 S.W. 27th Ave. Tampa, Fla...........1009 W. Platt St.
Georgia	Atlanta 9, Ga.....1383 Spring St., N.W. Jacksonville, Fla.......210 West 8th St.
Hawaii	Honolulu, Hawaii..Fort and Queen Sts.
Idaho	Salt Lake City, Utah.215 South 4th East Spokane, Wash..N. 1112 Washington St.
Illinois	Chicago 7, Ill.....1061 W. Jackson Blvd. Des Moines 12, Iowa.2211 W. Grand Ave. Springfield, Ill........917 E. Adams St. St. Louis, Mo..........2010 Olive Street
Indiana	Chicago 7, Ill.....1061 W. Jackson Blvd. Cincinnati 25, O..3056 W. McMicken Ave. Indianapolis 7, Ind.....1845 W. 18th St. Louisville, Ky...........501 W. Oak St.
Iowa	Des Moines 12, Iowa.2211 W. Grand Ave. Omaha 2, Neb...........1617 Dodge St.
Kansas	Kansas City 11, Mo...706 Westport Rd.
Kentucky	Cincinnati 25, O..3056 W. McMicken Ave. Louisville, Ky...........501 W. Oak St.
Louisiana	New Orleans 25, La...7715 Edinburgh St. Shreveport, La.......1511-13 Line Ave.
Maine	Boston 35, Mass..1256 Soldiers Field Rd.
Maryland	Baltimore, Md...3012 Greenmount Ave. Philadelphia 32, Pa. ......Hunting Park Avenue at Ridge Pittsburgh 6, Pa......231 S. Euclid Ave. Washington, D.C.....8710 Georgia Ave., N.W., Silver Spring, Md.
Massachusetts	Boston 35, Mass..1256 Soldiers Field Rd. Worcester, Mass......163 Mechanic St.
Michigan	Detroit 19, Mich..18801 West 7 Mile Rd. Duluth 1, Minn........928 East 2nd St. Milwaukee 3, Wis.......547 N. 16th St.
Minnesota	Duluth 1, Minn........928 East 2nd St. Minneapolis 2, Minn...808 Nicollet Ave.
Mississippi	Memphis 3, Tenn.....778 Madison Ave. New Orleans 25, La...7715 Edinburgh St.
Missouri	Kansas City 11, Mo...706 Westport Rd. Memphis 3, Tenn.....778 Madison Ave. St. Louis, Mo.........2010 Olive Street
Montana	Butte, Mont.......103 No. Wyoming St. Spokane, Wash..N. 1112 Washington St.
Nebraska	Denver 5, Colo.....3031 E. 40th Avenue Des Moines 12, Iowa.2211 W. Grand Ave. Omaha 2, Neb...........1617 Dodge St.
Nevada	Los Angeles 29, Calif. ....1225 North Vermont Ave. Salt Lake City, Utah.215 South 4th East San Francisco 3, Calif..1269 Howard St.
New Hampshire	Boston 35, Mass..1256 Soldiers Field Rd.
New Jersey	Newark, N.J...........52 Commerce St., Springfield, N.J. Philadelphia 32, Pa. ......Hunting Park Avenue at Ridge
New Mexico	Dallas, Texas......1616 Oak Lawn Ave.
New York	Albany 7, N. Y...............8 Elk St. Buffalo 13, N. Y.........960 Busti Ave. New York 17, N. Y......205 E. 42nd St. Rochester 7, N. Y.......75 College Ave. East Syracuse, N. Y....1937 Teall Ave.
North Carolina	Charlotte 4, N. C....1140 Elizabeth Ave. Norfolk, Va..........218 Flatiron Bldg. Richmond 30, Va...3425 West Leigh St.
North Dakota	Minneapolis 2, Minn...808 Nicollet Ave.
Ohio	Cincinnati 25, O..3056 W. McMicken Ave. Cleveland, Ohio.....3829 Carnegie Ave. Columbus 12, Ohio.1373 Grandview Ave. Indianapolis 7, Ind.....1845 W. 18th St. Pittsburgh 6, Pa......231 S. Euclid Ave. Toledo 4, Ohio..........520 Broadway
Oklahoma	Oklahoma City 7, Okla.,4030 N.W. 10th St. Tulsa, Okla...........1101 So. Main St.
Oregon	Portland 10, Ore.....522 N.W. 23rd Ave. Salt Lake City, Utah.215 South 4th East
Pennsylvania	Buffalo 13, N. Y.........960 Busti Ave. Philadelphia 32, Pa. ......Hunting Park Avenue at Ridge Pittsburgh 6, Pa......231 S. Euclid Ave. Rochester 7, N. Y.......75 College Ave.
Rhode Island	Providence 9, R. I....241 Harris Avenue
South Carolina	Charlotte 4, N. C....1140 Elizabeth Ave.
South Dakota	Des Moines 12, Iowa.2211 W. Grand Ave. Minneapolis 2, Minn...808 Nicollet Ave.
Tennessee	Chattanooga 3, Tenn...507 E. 8th Street Memphis 3, Tenn.....778 Madison Ave.
Texas	Dallas, Texas......1616 Oak Lawn Ave. Houston 1, Texas..1830 Westheimer Rd. Memphis 3, Tenn.....778 Madison Ave. San Antonio 12, Texas ....101 N. McCullough Ave.
Utah	Salt Lake City, Utah.215 South 4th East
Vermont	Boston 35, Mass..1256 Soldiers Field Rd. Springfield 3, Mass....365 Belmont Ave.
Virginia	Baltimore, Md...3012 Greenmount Ave. Norfolk, Va..........218 Flatiron Bldg. Richmond 30, Va...3425 West Leigh St. Roanoke, Va.....515 Norfolk Ave., S.W. Washington, D.C.....8710 Georgia Ave., N.W., Silver Spring, Md.
Washington	Portland 10, Ore....522 N.W. 23rd Ave. Seattle 9, Wash........217-8th Ave., N. Spokane, Wash..N. 1112 Washington St.
West Virginia	Baltimore 18, Md. ....3012 Greenmount Ave. Charleston, W. Va. ....5616 MacCorkle Ave., S.E. Pittsburgh 6, Pa......231 S. Euclid Ave. Richmond 30, Va...3425 West Leigh St.
Wisconsin	Duluth 1, Minn.....928 East Second St. Milwaukee 3, Wis.......547 N. 16th St. Minneapolis 2, Minn...808 Nicollet Ave.
Wyoming	Denver 5, Colo.....3031 E. 40th Avenue Salt Lake City, Utah.215 South 4th East
Alaska	Seattle 9, Wash........217-8th Ave., N.

CANADA

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British Columbia	Vancouver, B. C.........645 Hornby St. Winnipeg 2, Man......565 Portage Ave.
Manitoba	Winnipeg 2, Man......565 Portage Ave.
Maritime Provinces	Montreal, Que. ....8325 Mountain Sights Ave.
Nova Scotia	Halifax, N.S............125 Cunard St.
Ontario	Montreal, Que. ....8325 Mountain Sights Ave. Toronto, Ont...........78 Rivalda Rd., Weston, Ont. Winnipeg 2, Man......565 Portage Ave.
Quebec	Montreal, Que. ....8325 Mountain Sights Ave.
Saskatchewan	Winnipeg 2, Man......565 Portage Ave.
Yukon	Vancouver, B. C.........645 Hornby St.

EXPORT DIVISION

INTERNATIONAL GENERAL ELECTRIC COMPANY
X-Ray and Medical Products Sales
150 East 42nd Street, Room 635
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Printed in U. S. A.

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